

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
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JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130  
617-983-6622

08/08/11

Katherine Powell  
Assistant District Attorney, Suffolk County

Dear ADA Powell,

Enclosed are copies of the information you requested regarding sample number [REDACTED] in the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Daniela Frasca and Annie Khan (Dookhan).
3. Control Card with Analytical Results for sample number [REDACTED]
4. Analysis Notation Form for the above sample number.
5. GC-MS Raw Data Sheets for the above sample number.

GC-MS confirmatory testing was performed by Annie Khan (Dookhan). All other testing was performed by Daniela Frasca. If you have any questions or concerns about these facts, please contact me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read 'Daniela Frasca'.

Daniela Frasca  
Chemist II  
Drug Laboratory  
617 983-6631  
fax: 617 983-6625

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

*The Commonwealth of Massachusetts*

*Executive Office of Health and Human Services*

*Department of Public Health*

*State Laboratory Institute*

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 – 11:00

2:00 – 4:00

Amherst Hours

9:00 – 12:00

1:00 – 3:00

**DRUG RECEIPT**

City or Department: SUFFOLK County Sheriff's Police Reference No.: \_\_\_\_\_

Name and Rank of Submitting Officer: INVESTIGATOR Jonathan Spina IE #193

Defendant(s) Name (last, first, initial):



To be completed by Submitter

Description of Items Submitted

To be completed by Lab Personnel

Gross Weight

Lab Number

SUB  
1 Glass pipe with white powdery

substance BAg# 174209

12.62g



Received by: [Signature]

Date: 9.16.10

## Curriculum Vitae

Daniela Frasca

### Education

Boston University School of Medicine, Boston MA

*Currently enrolled in the Biomedical Forensic Science MS Program*

Suffolk University, Boston, MA

*Graduated in 05/1996 and received a Bachelor of Science in Biochemistry*

### EXPERIENCE

Massachusetts State Laboratory Institute/DPH, Jamaica Plain, MA 01/2001 -- present

Drug Laboratory: Chemist II

- Analysis of all substances by chemical screening, microscopy, and instrument confirmation to determine the presence of drugs for law enforcement agencies in the Commonwealth of Massachusetts.
- Appointed assistant analyst on January 29, 2001 by the Assistant Commissioner of DPH
- Completed four weeks of training in drug analysis under the supervision of senior chemists.

Quest Diagnostics Incorporated, Cambridge, MA

09/1996 – 10/2001

Department of Toxicology: Medical Technologist I

- Handles comprehensive toxic analysis, therapeutic drug monitoring, forensic drug screening, and compound ID's of biohazard samples utilizing standard operating procedures in clinical toxicology.
- Entered data and interpreted results for reporting
- QC/QA of multiple analytical instrumentation as well as maintenance
- Completed 60 days of training under the supervision of doctorate level toxicologists.

### Additional Training

Northeastern Association of Forensic Scientists

Designer Drugs

Clandestine labs

Agilent Instruments and Software

Digital Photography

McCrone Research Institute

Forensic Polarized Microscopy

Polarized Microscopy of Illicit Drugs and Excipients

Massachusetts State Laboratory Institute

Expert Witness

Raman Spectroscopy

### Associations and Programs

- Northeastern Association of Forensic Scientists (NEAFS) 2001 - present
- The International Association of Forensic Toxicologists (TIAFT) 2003 - present
- The International Association of Therapeutic Drug Monitoring And Clinical Toxicology (IATDMCT) 2003 - present
- Massachusetts State Science Fair Judge 2000 - present
- Middle School State Science Fair Judge 2006 - present
- Volunteer Science Project Mentor/Tutor for the TTT Mentor Program 2003 - present

## Curriculum Vitae

**Annie Khan (Dookhan)**

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Responsible for the Quality Control/Quality Assurance program for the drug lab.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

No. [REDACTED]

Date Analyzed: 12-22-10

City: ~~Boston D.C.U. Police Dept.~~ *Suffolk Co Sheriff's Dept*

Officer: ~~P.O. Diana Lopez~~ *Paul R. Vozze/14*

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 1 Cont: ~~pipe~~ *paper fold*

Date Rec'd: 09/16/2010

No. Analyzed:

Gross Wt.: 12.62

Net Weight: *0.08g*

# Tests: *7*

Prelim

*(K) Cocaine*

Findings:

*2 ASD*  
*Cocaine*

**DRUG POWDER ANALYSIS FORM**

SAMPLE #



AGENCY Suffolk Co Sheriff ANALYST [Signature]

PHYSICAL DESCRIPTION:

a glass tube pipe

Ev. mark

Substance in 1 paper fold (brown paper towel).

Marg -

Præd -

Meck -

Cobalt - + Macid

Gold +

TLTA - + Macid

Gross Wt (including  
Substance in pipe  
burnt open end):

0.3054g

Net Wt (including  
Substance in pipe  
burnt open end):

0.0891g

PRELIMINARY TEST RESULTS

RESULTS Cocaine

DATE 12/17/10

GC/MS CONFIRMATORY TEST

RESULTS Cocaine

MS OPERATOR [Signature]

DATE 12/22/10

Area Percent / Library Search Report

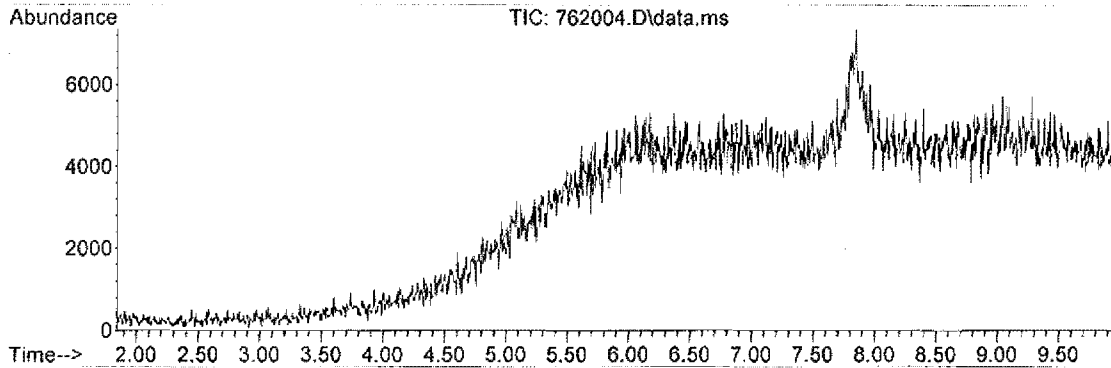
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Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762004.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 9:10  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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✓ ASD  
08-5-11



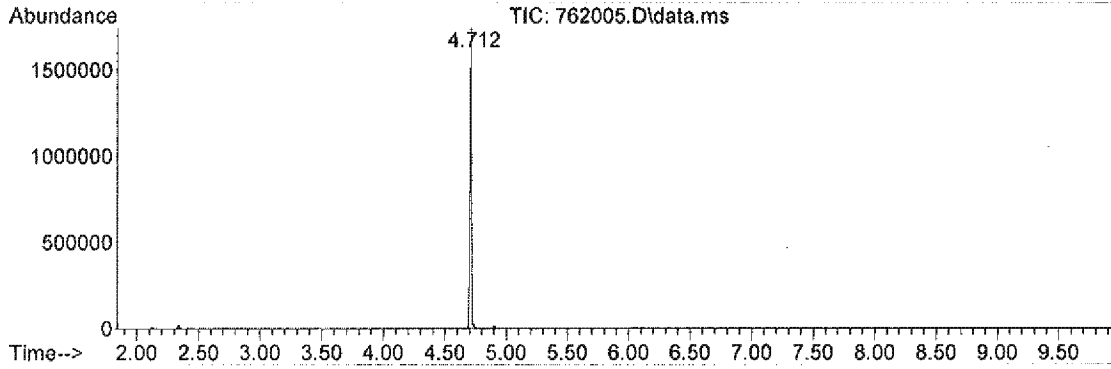
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762005.D  
 Operator : ASD  
 Date Acquired : 21 Dec 2010 9:23  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 5  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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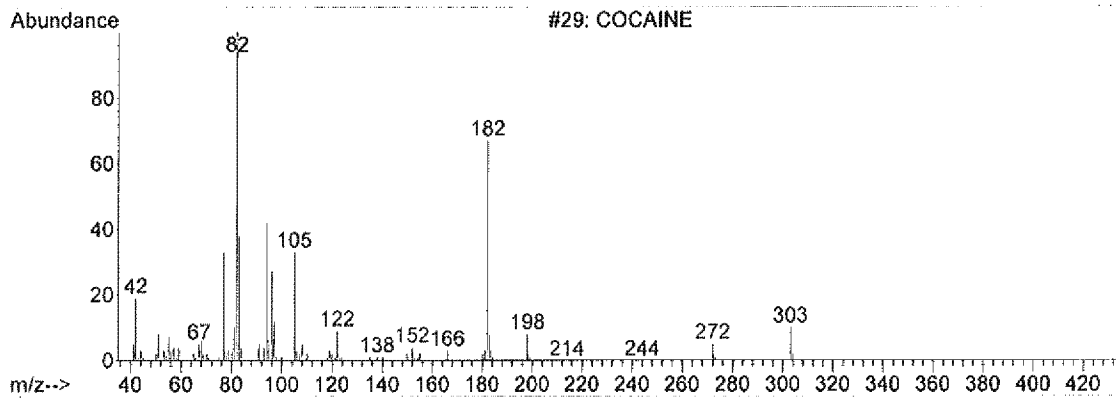
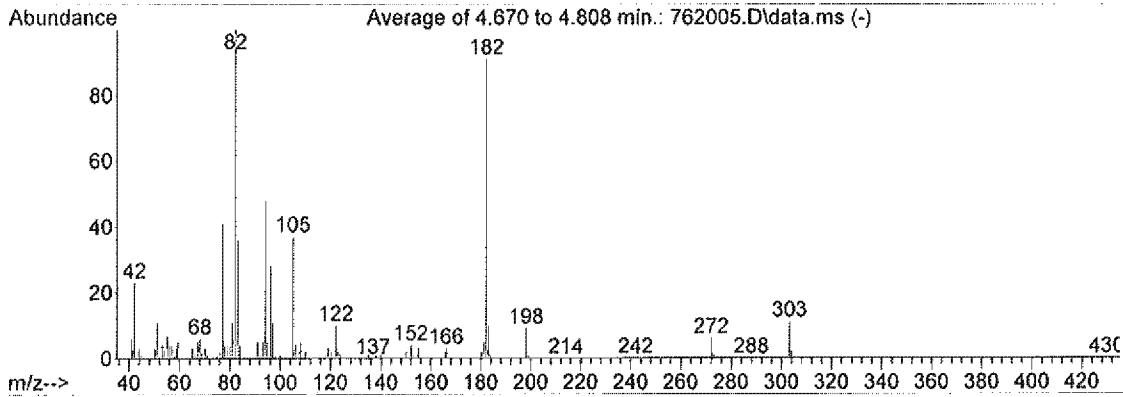


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Operator : ASD  
Date Acquired : 21 Dec 2010 9:23  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 5  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.71	C:\Database\SLI.L COCAINE	000050-36-2	99



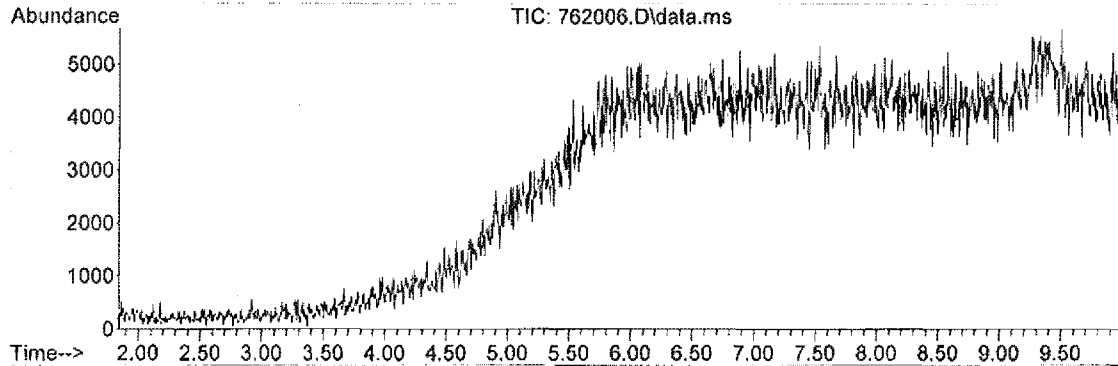
Area Percent / Library Search Report

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Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762006.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 9:36  
Sample Name : BLANK  
Submitted by : DXF  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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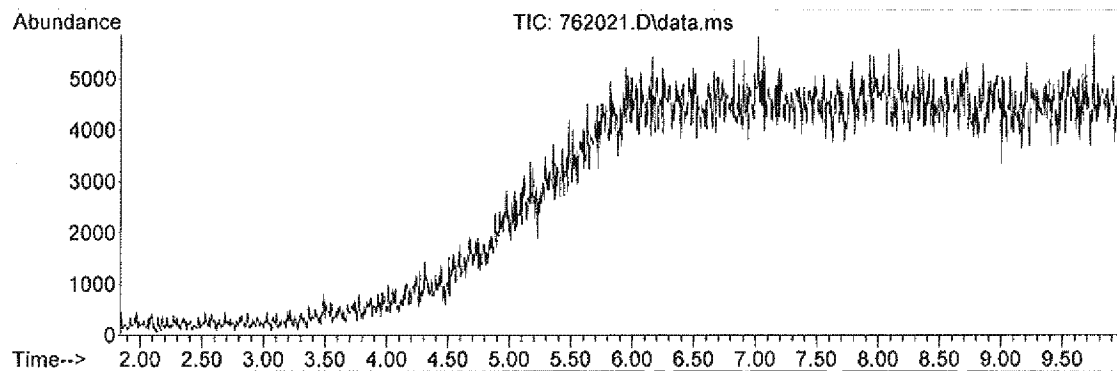
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762021.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 12:45  
Sample Name : BLANK  
Submitted by : DXF  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

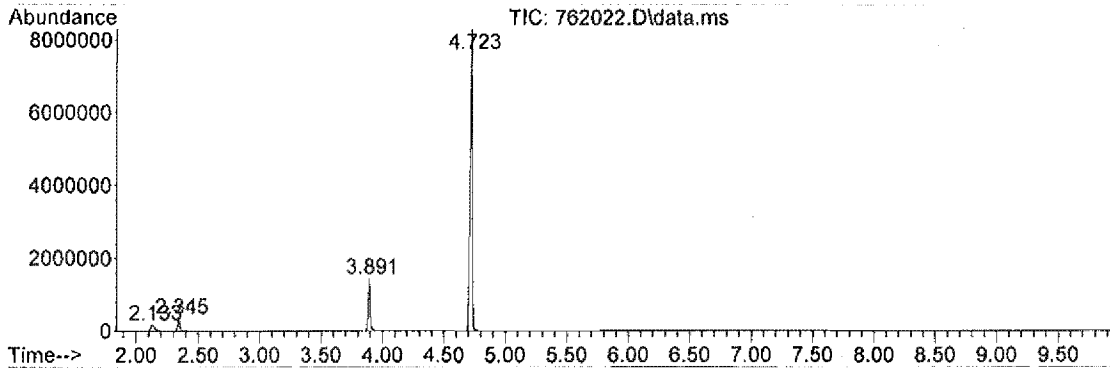


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762022.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 12:58  
Sample Name : XXXXXXXXXX  
Submitted by : DXF  
Vial Number : 22  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



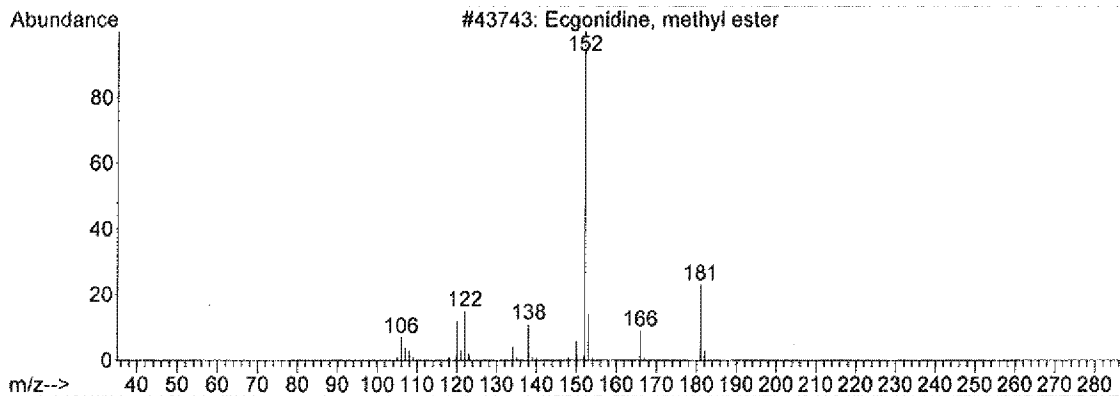
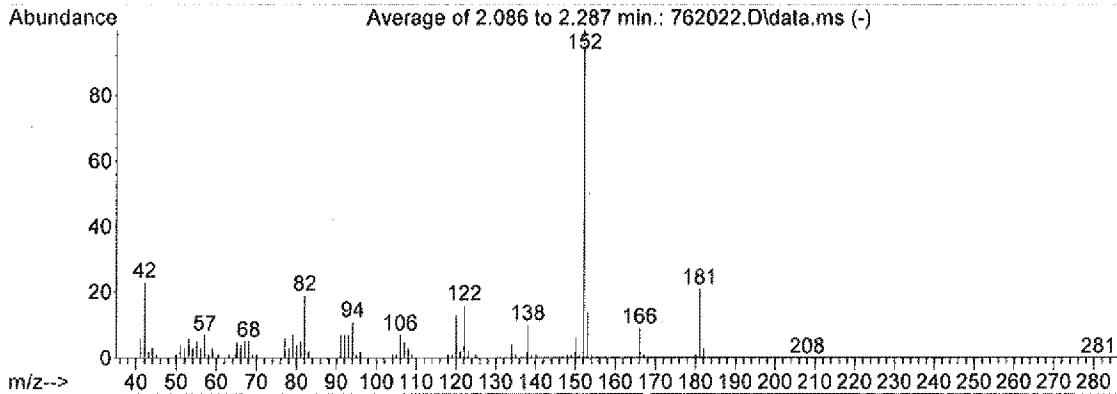
Ret. Time	Area	Area %	Ratio %
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2.345	400365	3.17	3.93
3.891	1646763	13.06	16.18
4.723	10175338	80.67	100.00

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762022.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 12:58  
Sample Name : XXXXXXXXXX  
Submitted by : DXF  
Vial Number : 22  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.13	C:\Database\NIST05a.L		
		Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	95
		2-Methyl-6-nitroaniline	000570-24-1	38

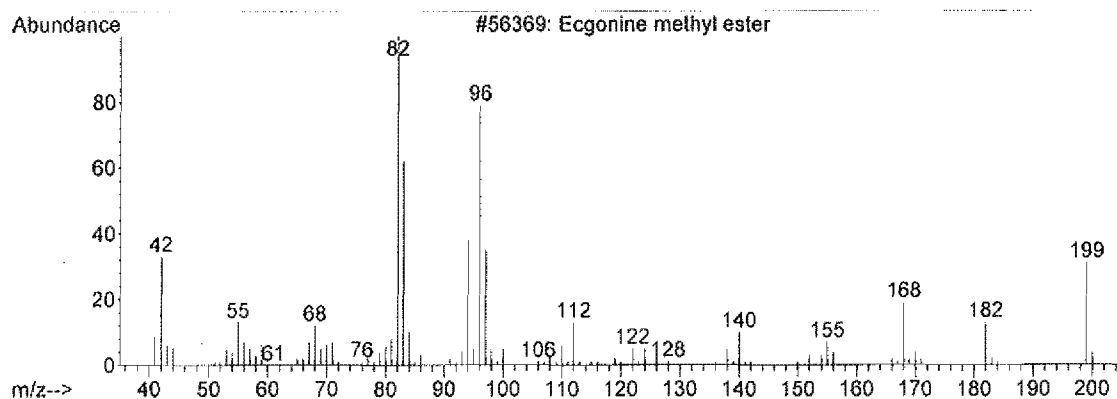
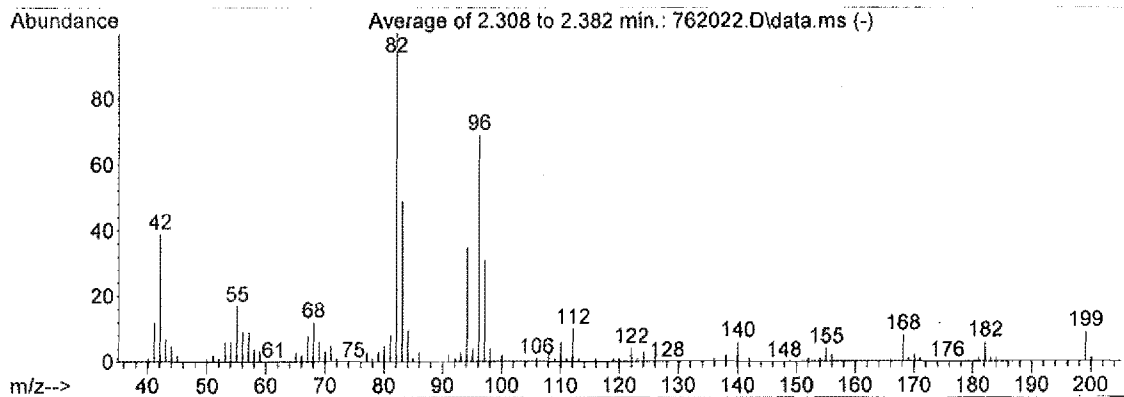


## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762022.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 12:58  
Sample Name : XXXXXXXXXX  
Submitted by : DXF  
Vial Number : 22  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.35	C:\Database\NIST05a.L		
		Ecgonine methyl ester	106293-60-1	98
		Ecgonine methyl ester	106293-60-1	96
		Ecgonine methyl ester	106293-60-1	96

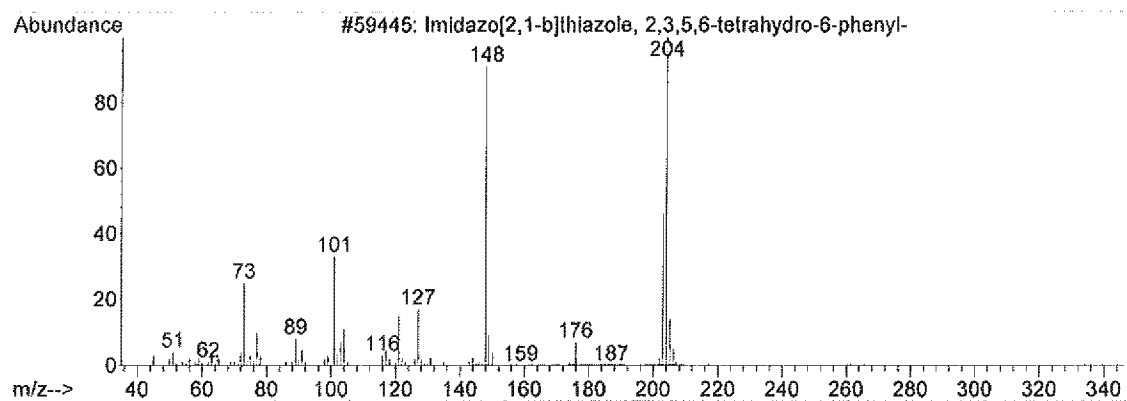
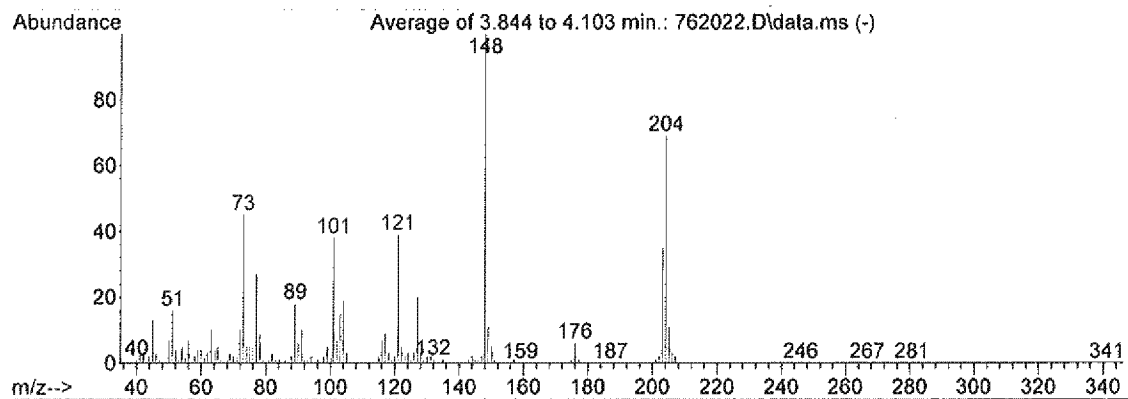


## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762022.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 12:58  
Sample Name : XXXXXXXXXX  
Submitted by : DXF  
Vial Number : 22  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	3.89	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	97
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



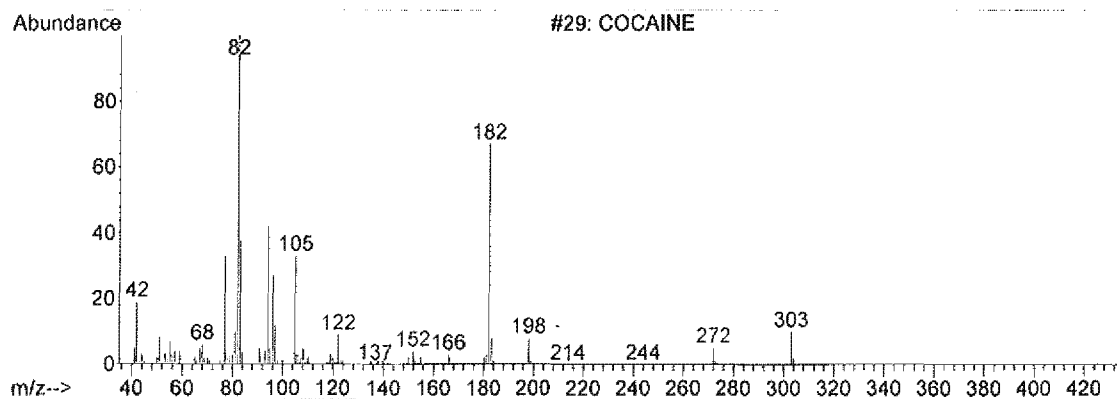
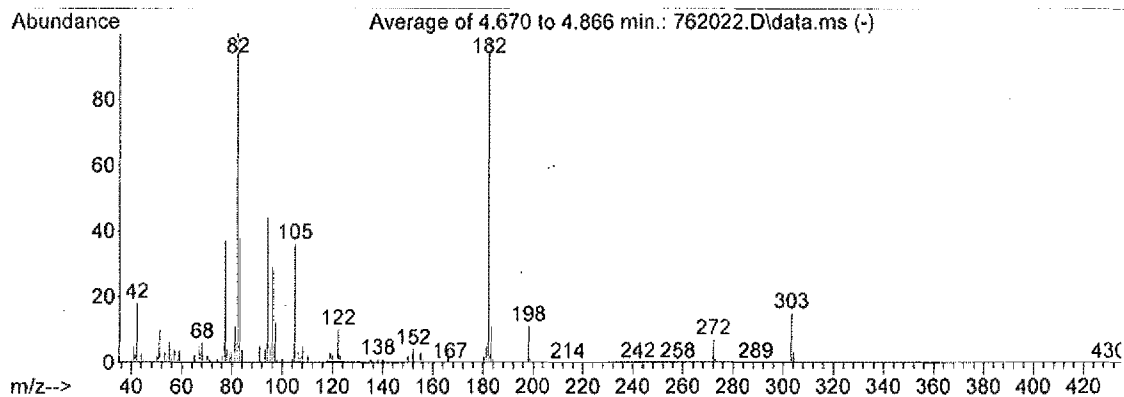
## Area Percent / Library Search Report

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762022.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 12:58  
Sample Name : XXXXXXXXXX  
Submitted by : DXF  
Vial Number : 22  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

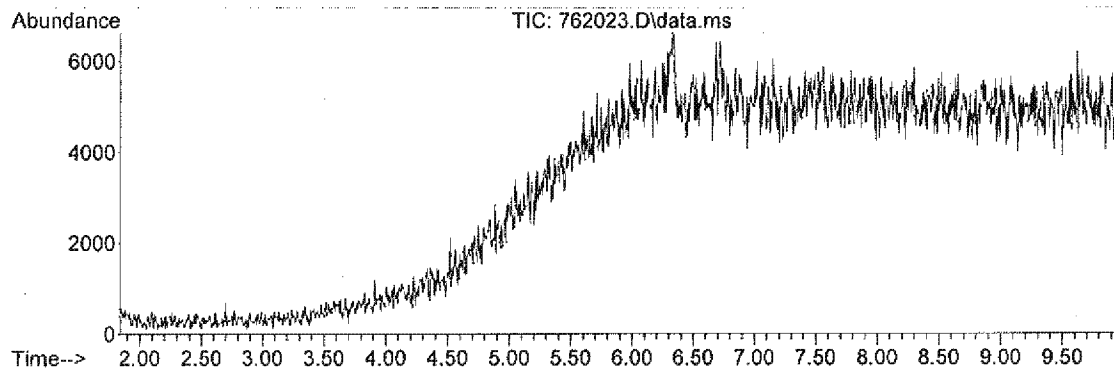
PK#	RT	Library/ID	CAS#	Qual
4	4.72	C:\Database\SLI.L COCAINE	000050-36-2	99





## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762023.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 13:10  
Sample Name : BLANK  
Submitted by : DXF  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

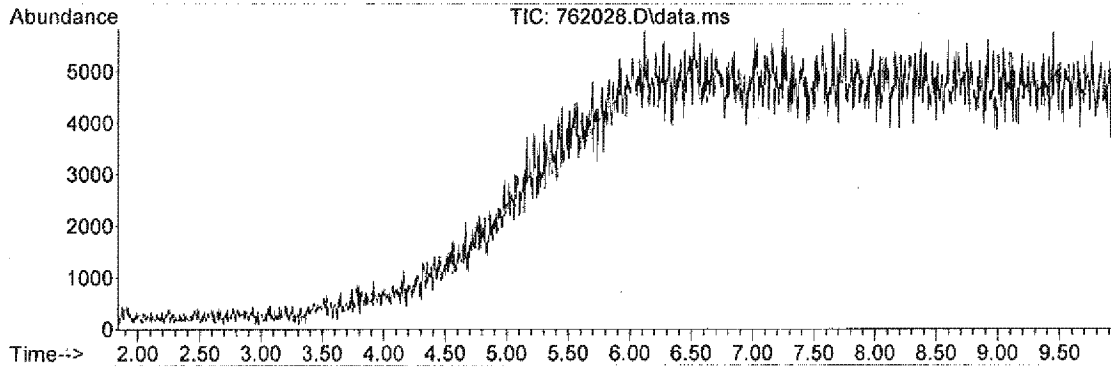


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762028.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 14:13  
Sample Name : BLANK  
Submitted by : DXF  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

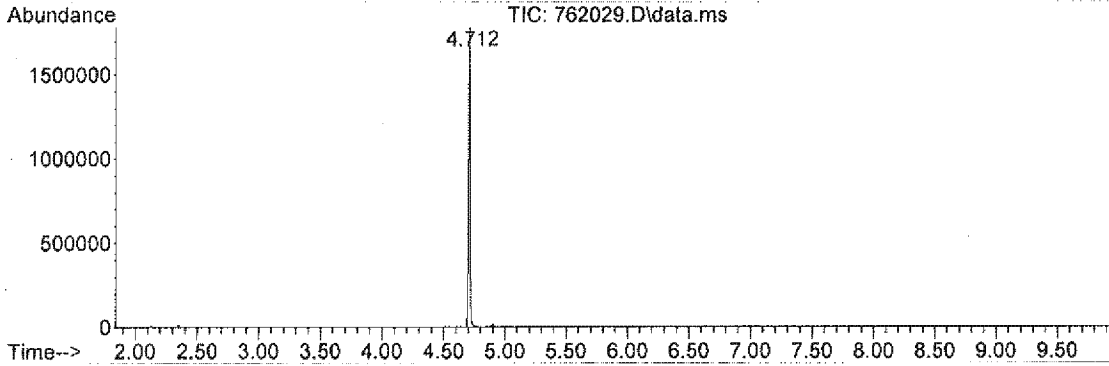


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762029.D  
 Operator : ASD  
 Date Acquired : 21 Dec 2010 14:26  
 Sample Name : COCAINE STD  
 Submitted by : DXF  
 Vial Number : 29  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



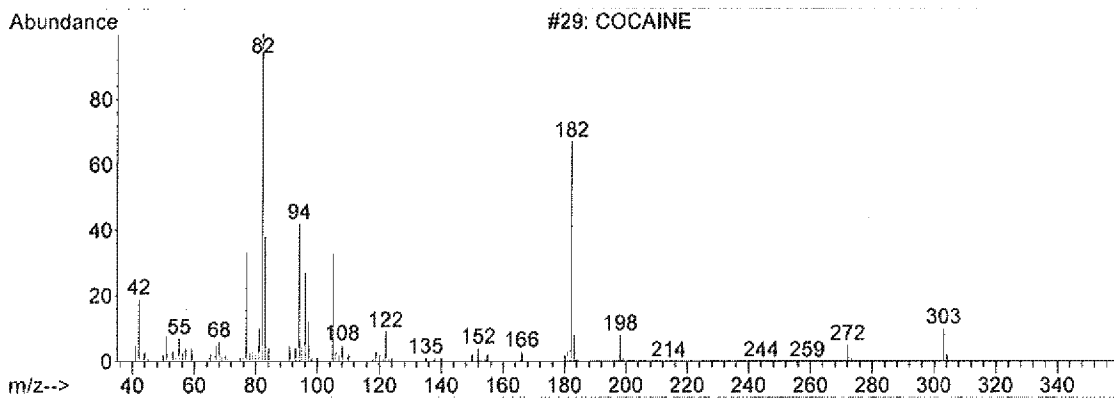
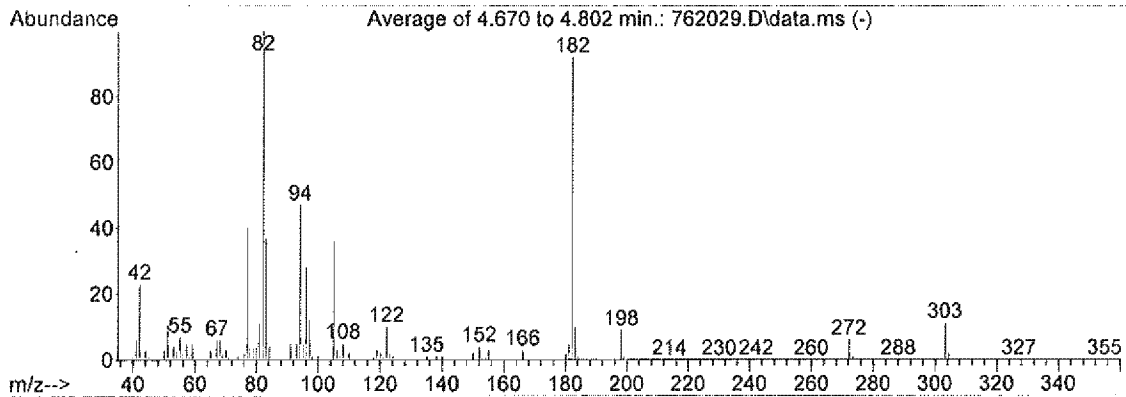
Ret. Time	Area	Area %	Ratio %
4.712	1717650	100.00	100.00

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762029.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 14:26  
Sample Name : COCAINE STD  
Submitted by : DXF  
Vial Number : 29  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

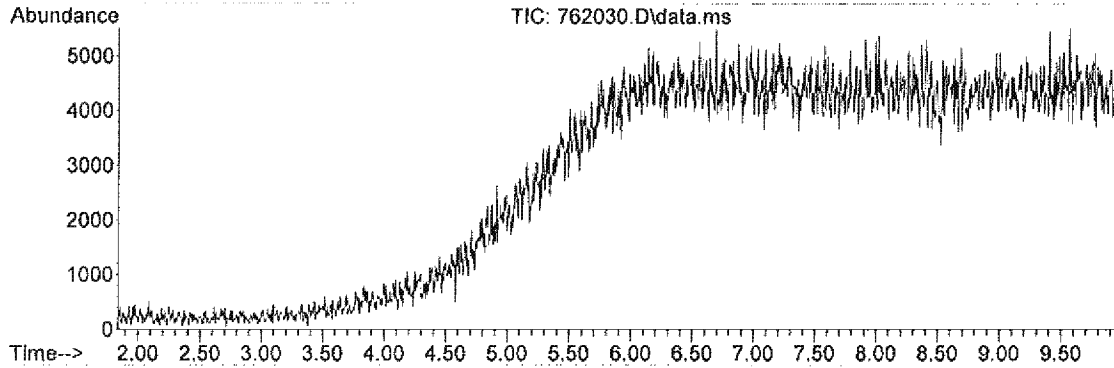
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.71	C:\Database\SLI.L COCAINE	000050-36-2	99



## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12\_21\_10\762030.D  
Operator : ASD  
Date Acquired : 21 Dec 2010 14:39  
Sample Name : BLANK  
Submitted by : DXF  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*